

The MTA logo is a large, dark blue stylized 'M' and 'T' inside a dark blue circle. The background is a green gradient with a black vertical line on the left and a black horizontal line at the top.

San Francisco Bay Area Regional ITS Architecture

Maintenance Committee

Metropolitan Transportation Commission
Claremont Room, MTC, 101 Eighth Street,
Oakland, California 94607
01/09/2007



Summary of Maintenance Committee Meeting 06/14/2006

- Three ITS projects were submitted for Architecture inclusion
 - Solano County Transit AVL – **Approved for inclusion**
 - LAVTA CAD/AVL – **Approved for inclusion**
 - Vallejo Transit Vehicle Radio & Fareboxes – **Not approved for inclusion**
- The Maintenance Committee will play an advisory role in the upcoming Architecture Update



Golden Gate Bridge Highway and Transportation District Radio Replacement

- Proposed by *Golden Gate Bridge Highway & Transportation District*
- The project will replace, enhance, and expand the existing transit communication system
- The project is **recommended** for incorporation in the Bay Area Regional ITS Architecture



ITS Architecture Basics

- What is an ITS Architecture –
 - A framework designed to facilitate information sharing and control coordination for ITS
- Why Bay Area needs an ITS Architecture –
 - To satisfy Federal requirements and qualify for Federal funding
 - To identify stakeholders
 - To document the existing resources
 - To provide a structured framework for deployment and integration
 - To identify “gaps” in systems or services



Bay Area Regional ITS Architecture Update 2007- Overview

- ITS Architecture is a dynamic document that needs to be modified periodically to reflect the current system and region's needs
- Architecture update should be coordinated with RTP update every three years. (RTP was last completed in February 2005)
- The updated Architecture will be user-friendly and easy to access and use for project planning, funding, and procurement staff.



Architecture Update Objective

- The updated Bay Area ITS Architecture will
 - Reflect changes to the Bay Area ITS system since the Architecture's completion
 - Focus on new data exchange requirements and new user services
 - Enhance usability for project planning, funding, and procurement
 - Minimize maintenance work



Existing Architecture Overview

- Existing Architecture completed by MTC in 2004
- First ITS Architecture for Bay Area
- Based on National ITS Architecture 4.0 (to be 6.0 in early 2007)
- Used Turbo Architecture 2.0 (Now 3.0)
- Maintained by MTC & the Architecture Maintenance Committee
- Ready for the first major update



Existing Architecture Components Review

- **Accessible from**
<http://mtc.ca.gov/planning/ITS/>
- **Current Architecture Components**
 - Stakeholder list,
 - ITS inventory,
 - ITS needs and user services
 - Operational concepts
 - Functional requirements
 - Information flow and interconnect
 - ITS standards
 - Interagency agreements
 - ITS project database
 - Use and maintenance



Architecture Update Scope

- Architecture Inclusion Guideline – Which projects need to be submitted to the RA?
- Streamline Architecture – Make RA easier to use
- Update Architecture Components
 - Solicit changes and inputs from stakeholders
 - Committee reviews the proposed changes
 - Changes are incorporated in the Architecture
- Final Report and Executive Summary
- Architecture Outreach Strategy and Usage Education

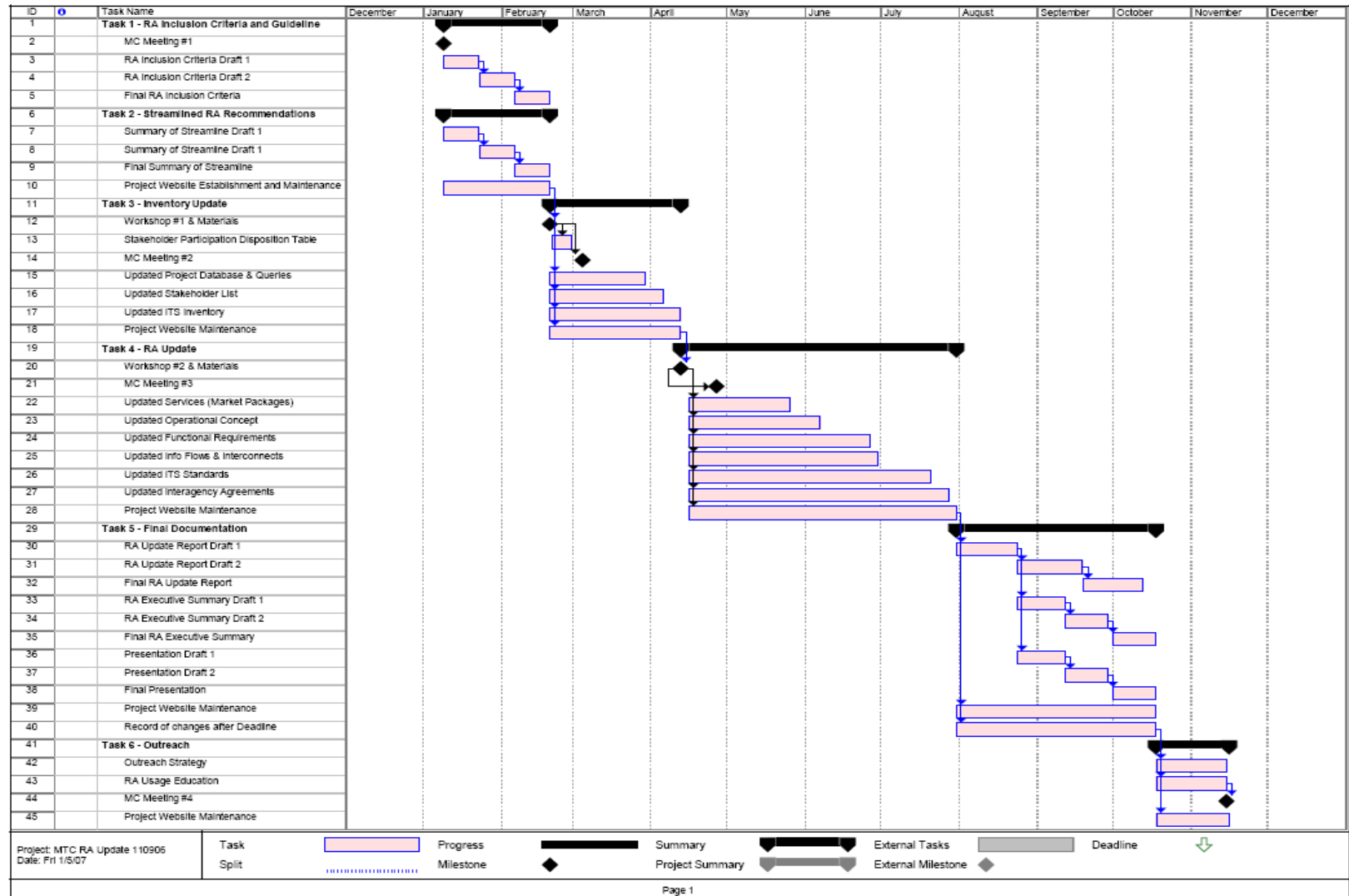


Architecture Update Scope (continued)

- Address the changes from the upgrade of National ITS Architecture to Version 6.0
- Document the updated Bay Area ITS Architecture in the latest Turbo Architecture 3.0
- Add references to the Statewide ITS Architecture for interregional services and integration
- Incorporate proposed updates submitted after the development baseline Architecture (documented in Table 11 of the existing Architecture)



Bay Area Regional ITS Architecture Update 2007





Deliverables for Maintenance Committee Review

- Deliverables for the Architecture Update will be reviewed by both MTC and the Maintenance Committee
- For the Maintenance Committee, Deliverables will be published on the project website with an email notification.



Milestones for Outreach Activities – Stakeholder Workshop 1

- RA update introduction to stakeholders
- Introduce guidelines regarding which projects need to be submitted to the Bay Area ITS Architecture
- Collect changes in ITS inventory
- Discuss changes in ITS needs and user services in Bay Area
- Solicit new ITS projects
- Verify stakeholder contact information



Milestones for Outreach Activities – MC Meeting 2

- Review work progress
 - Guidelines regarding RA inclusion
 - Summary of RA streamline recommendations
- Summarize inputs received in the previous stakeholder workshop regarding
 - ITS Inventory
 - ITS Needs and User Services
 - Stakeholder List
 - New ITS Projects
- Approve proposed changes



Milestones for Outreach Activities – Stakeholder Workshop 2

- Summarize project status and changes made to
 - ITS Inventory
 - ITS Needs and User Services
 - Stakeholder List
 - New ITS Projects
- Collect stakeholder inputs regarding changes to
 - Operational Concepts
 - Functional Requirements
 - Information Flow and Interconnects
 - ITS Standards
 - Interagency Agreements



Milestones for Outreach Activities – MC Meeting 3

- Summarize project status and changes made to
 - ITS Inventory
 - ITS Needs and User Services
 - Stakeholder List
 - New ITS Projects
- Summarize inputs received in the previous stakeholder workshop regarding
 - Operational Concepts
 - Functional Requirements
 - Information Flow and Interconnects
 - ITS Standards
 - Interagency Agreements
- Approve proposed changes



Milestones for Outreach Activities – MC Meeting 4

- Review final report, final executive summary, and final presentation.
- Introduce the outreach strategy and RA usage education
- Conclude the RA Update project



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